

Abstract

The invention provides a process for producing 2'-deoxyguanosine, characterized in that the process includes reacting one compound selected from the group consisting of guanosine, guanosine 5'-monophosphate, and 2-amino-6-substituted purine with 2'-deoxynucleoside in the presence of nucleoside deoxyribosyl transferase and a hydrolase.

According to the process of the present invention, 2'-deoxyguanosine can be synthesized efficiently from inexpensive and easily available starting materials. Since no guanosine, which disturbs purification, is virtually present in a reaction mixture, isolation and purification of 2'-deoxyguanosine can be performed in a very simple manner. Thus, the process for producing 2'-deoxyguanosine is practical.